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## Chapter One

# Introduction

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### 1.1 INTRODUCTION

The Delaware Department of Transportation (DelDOT) has developed this Bridge Design Manual to provide guidance and assistance in the theory and practice of all design related to bridges and structures as authorized by the State Legislature. This manual documents DelDOT policies and prescribes procedures. This manual is directed primarily to Department Bridge Design personnel and consulting engineers for the design of state-maintained structures.

DelDOT's mission is to provide a safe, efficient, and environmentally sensitive transportation network that offers a variety of convenient and cost-effective choices for the movement of people and goods. Some of the major functions of DelDOT are the planning, design, construction, and maintenance of roadways, bridges, and other multi-modal transportation facilities within the State. The construction and improvement of roads and bridges involves close coordination among the divisions within DelDOT. The general functions of some of the divisions of DelDOT are listed below.

**Transportation Solutions:** Developing and constructing all projects as guided by the Statewide Long Range Transportation

Plan to meet identified transportation needs. Sections within the Division include:

- Bridge Design
- Construction
- Environmental Studies
- Materials and Research (M&R)
- Project Development
- Quality
- Statewide Support
- Survey
- Team Support
- Traffic
- Utilities

**Maintenance and Operations:** Inspecting, maintaining, managing and operating Delaware's roads, bridges and toll facilities.

- Bridge Management
- Business Management
- Community Transportation Needs Program
- National Pollutant Discharge Elimination System (NPDES) Program
- Outdoor Advertising
- Pavement Management
- Pavement Markings
- Public Works
- Roadside Beautification

- Sign Fabrication and Installation
- Stormwater Management
- Street and Overhead Sign Lighting
- Toll Operations
- Transportation System Maintenance

**Planning:** Providing all planning services to meet the long-range vision of the Department and the Governor's Livable Delaware goals.

- Development Coordination
- Real Estate
- Statewide and Regional Planning
- Statistical Research and Special Programs
- Subdivisions
- Transportation Enhancements